

Title (en)

Method and means for managing space re-use in a shadow written B-tree via free space lists.

Title (de)

Verfahren und Mittel zur Verwaltung von Raumwiederverwendung in einem doppelt geschriebenen B-Baum durch Freiraumlisten.

Title (fr)

Procédé et moyen de gestion de réutilisation d'espace dans un arbre B écrit en double par des listes d'espace libre.

Publication

EP 0453707 A2 19911030 (EN)

Application

EP 91100537 A 19910118

Priority

US 51490490 A 19900426

Abstract (en)

A method for managing space re-use with respect to the indices (nodes) of shadow written tree organized dynamic random accessed files/records/pages located in the external store of a CPU. The method reserves space in all non-leaf nodes and maintains a list of available node addresses. When a new node is required then space, if available, is obtained from the parent node list. Only when the parent list becomes exhausted is space (node) obtained from a node inventory manager. Deletion of a node causes its address to be placed on the free or available list maintained by that node's parent. If there is no space, then space on the parent node list is obtained by returning to the inventory manager that node on the list having the least locality with the existing subordinate (children) nodes of the parent. <IMAGE>

IPC 1-7

G06F 15/403; **G06F 15/413**; **G06F 15/419**

IPC 8 full level

G06F 12/00 (2006.01); **G06F 17/30** (2006.01)

CPC (source: EP US)

G06F 16/9027 (2018.12 - EP US); **Y10S 707/99957** (2013.01 - US)

Cited by

CN112612011A; EP1918822A1; US5893931A; EP0813713A4; GB2373082A; GB2373082B; CN100432991C; US7715385B2; WO0143346A3; WO2008053345A1; US6836771B2; US7423981B2; US7913060B2; US7966421B2

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